

ABSTRACT

5 The present invention addresses the need to improve the yields of viral vectors
when grown in cell culture systems. In particular, it has been demonstrated that for
adenovirus, the use of low-medium perfusion rates in an attached cell culture system
provides for improved yields. In other embodiments, the inventors have shown that there
is improved Ad-p53 production with cells grown in serum-free conditions, and in
particular in serum-free suspension culture. Also important to the increase of yields is the
10 use of detergent lysis. Combination of these aspects of the invention permits purification
of virus by a single chromatography step that results in purified virus of the same quality
as preparations from double CsCl banding using an ultracentrifuge.